



DIN 6921 Flange Bolt

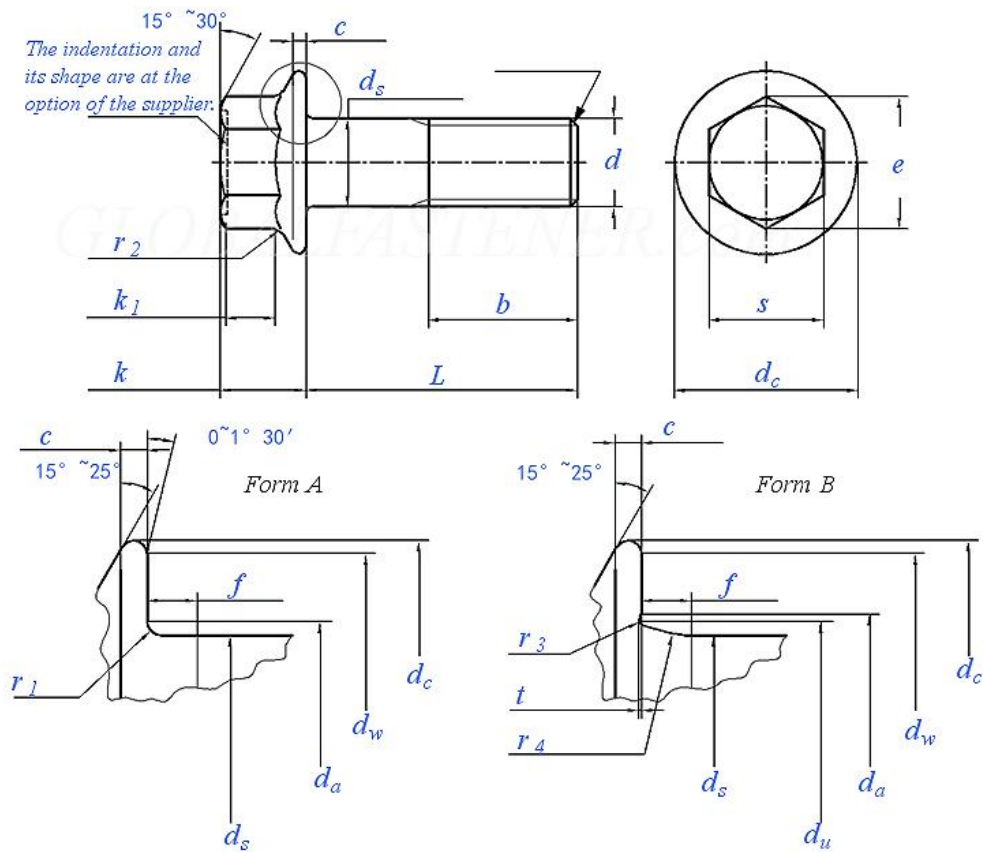
Leader-Fastener is a manufacturer and distributor of **DIN 6921 Flange Bolt**. We have a complete line of service from having invested in production plants, export department and to having a quality control team and center to meet your requirements. We regard quality as the life of the company. We persist in good quality as the first policy and have established a set of quality control and inspection system according to the international standard. We have carried out ISO9001 Quality Guarantee System in every course of production, transportation and selling. We do hope we could be your partner in business by topping quality, knight service and competitive price in the near future

and be your friends as well.

DIN 6921 - Hexagon flange bolts metric

The **DIN 6921 Flange Bolt** is an integral bolt composed of a hexagon head and a flange plate (the gasket under the hexagon is fixed with the hexagon) and a screw (a cylinder with an external thread). It needs to be matched with a nut for fastening. Parts connecting two through holes, so the bolt connection is a detachable connection. Flange bolts are composed of hexagonal heads and flanges. The "ratio of support area to stress area" is larger than that of ordinary bolts, so this kind of bolts can withstand higher preloading force and have better anti-loosening performance, so they are widely used. Used in automotive engines, heavy machinery and other products. According to the force mode of the connection, there are ordinary ones and those with reaming holes. The flange bolts used for reaming holes should be matched with the size of the holes and are used when they are subjected to lateral force. In addition, in order to meet the needs of locking after installation, there are rods with holes, these holes can prevent the bolts from loosening when they are subjected to vibration. Some flange bolts have no thread for smooth rod parts, which are called thin rod flange bolts. This kind of flange bolt is conducive to the connection under variable force.

DIN 6921 - 1983 Hexagon Flange Bolts



Screw Thread			M5	M6	M8	M10	M12	M14	M16	M20
d										
P	Pitch	Coarse thread	0.8	1	1.25	1.5	1.75	2	2	2.5
		Fine thread-1	/	/	1	1.25	1.5	1.5	1.5	1.5
		Fine thread-2	/	/	/	1	1.25	/	/	/
b	L≤125		16	18	22	26	30	34	38	46
	125<L≤200		/	/	28	32	36	40	44	52
	L>200		/	/	/	/	/	/	57	65
c	min		1	1.1	1.2	1.5	1.8	2.1	2.4	3
d _a	Form A	max	5.7	6.8	9.2	11.2	13.7	15.7	17.7	22.4
	Form B	max	6.2	7.4	10	12.6	15.2	17.7	20.7	25.7
d _c	max		11.8	14.2	18	22.3	26.6	30.5	35	43
d _s	max		5	6	8	10	12	14	16	20
	min		4.82	5.82	7.78	9.78	11.73	13.73	15.73	19.67
d _u	max		5.5	6.6	9	11	13.5	15.5	17.5	22
d _w	min		9.8	12.2	15.8	19.6	23.8	27.6	31.9	39.9

e	min	8.71	10.95	14.26	16.5	17.62	19.86	23.15	29.87
f	max	1.4	2	2	2	3	3	3	4
k	max	5.4	6.6	8.1	9.2	11.5	12.8	14.4	17.1
k ₁	min	2	2.5	3.2	3.6	4.6	5.1	5.8	6.8
r ₁	min	0.25	0.4	0.4	0.4	0.6	0.6	0.6	0.8
r ₂	max	0.3	0.4	0.5	0.6	0.7	0.9	1	1.2
r ₃	min	0.1	0.1	0.15	0.2	0.25	0.3	0.35	0.4
r ₄	≈	3	3.4	4.3	4.3	6.4	6.4	6.4	8.5
s	max=nominal size	8	10	13	15	16	18	21	27
	min	7.78	9.78	12.73	14.73	15.73	17.73	20.67	26.67
t	max	0.15	0.2	0.25	0.3	0.35	0.45	0.5	0.65
	min	0.05	0.05	0.1	0.15	0.15	0.2	0.25	0.3
Length of Thread b		-	-	-	-	-	-	-	-

①,e min. = 1.12 x s min.

②,Material:

a) Steel, Strength class (material): 8.8,10.9,12.9 Standard DIN ISO 898-1

b) Stainless steel, Strength class (material): A2-70 Standard DIN 267-11